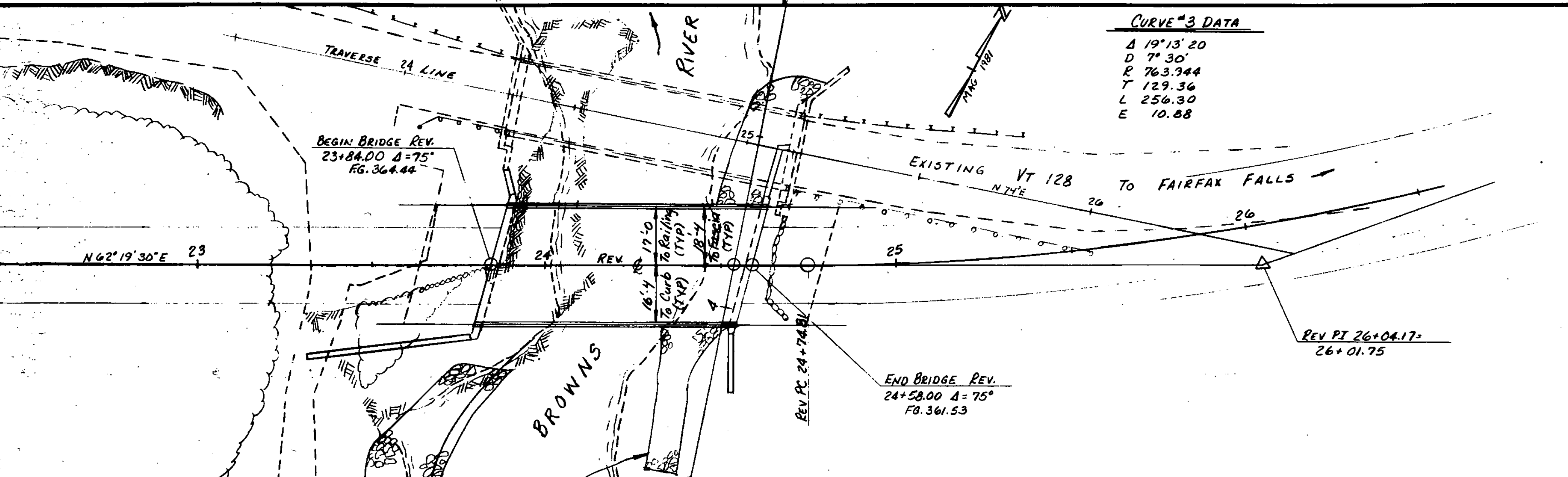


EXISTING STRUCTURE	
1. STRUCTURE TYPE	STEEL PONY TRUSS, CONCRETE DECK OVERALL LENGTH 84' INVENTORY RATING POSTED 20 TONS (3 AXLE)
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	82'
3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	76'
4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	1200 SQ. FT. VERTICAL CLEARANCE ABOVE STREAMBED 15'
5. WATER SURFACE ELEVATION @ Q 2.33	WATER SURFACE ELEVATION @ Q 100 EL. 342.0
6. WATER SURFACE ELEVATION AT FLOOD OF RECORD	355 YEAR 1927 ESTIMATED DISCHARGE
7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE? YES IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR?	ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF
8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL	SOUTH WEST ABUTMENT - LEDGE NORTHEAST ABUTMENT - SANDY GRAVEL
9. DISPOSITION OF STRUCTURE	REMOVAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR

NEW STRUCTURE	
1. STRUCTURE TYPE	SINGLE SPAN ROLLED BEAM, COMP. CONCR. DECK OVERALL LENGTH 74'
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	72'
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER	14' TO 18'
4. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	67'
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	1030 SQ. FT.
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES?	NO

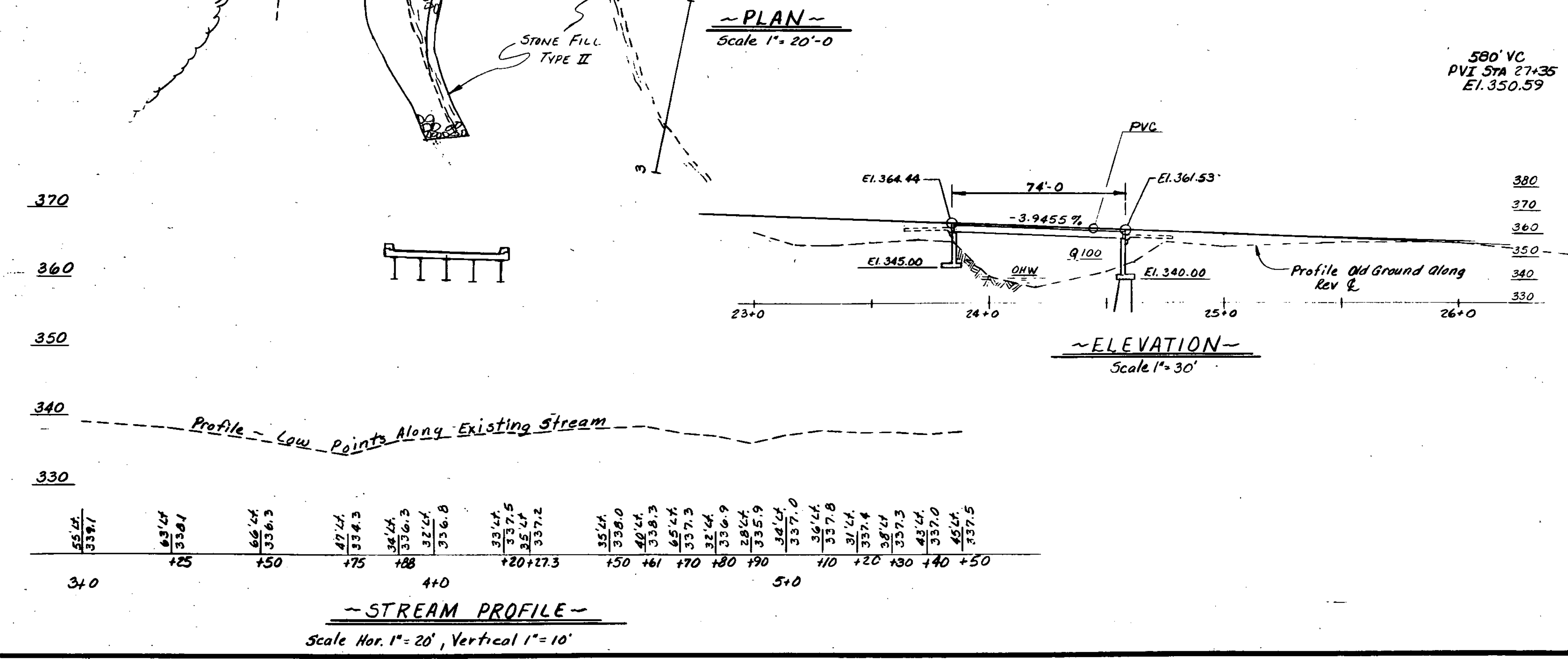


HYDRAULIC DATA:			
Q 2.33	1600 CFS	WATER ELEVATION 343.3 FT	VELOCITY 5.6 FPS
Q 10	3200 CFS	WATER ELEVATION 346.0 FT	VELOCITY 8.1 FPS
Q 25	5200 CFS	WATER ELEVATION 347.4 FT	VELOCITY 9.4 FPS
Q 50	6200 CFS	WATER ELEVATION 348.3 FT	VELOCITY 10.1 FPS
Q 100	7200 CFS	WATER ELEVATION 349.2 FT	VELOCITY 10.8 FPS

2. DRAINAGE AREA	40.6 SQ. MI.	CHARACTER OF TERRAIN	ROLLING TO MOUNTAINOUS
3. ARE THERE OBJECTIONS TO A PIER IN THE STREAM?	NA		
4. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? YES		IS ORDINARY RISE RAPID? YES	
5. NATURE OF NATURAL STREAMBED	Sandy Gravel, Some Ledge		
6. ESTIMATED SCOUR DEPTH	2 FT - 4 FT	COMMENT ON: DRIFT	MOD.
7. WILL ALL WATER PASS THROUGH NEW STRUCTURE? YES IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR?	NA		
8. VERTICAL CLEARANCE ABOVE Q	50'	8.7 FT	LIMITED BY BOTTOM OF ROLLED BEAM
9. ALLOWABLE WATER SURFACE ELEVATION	352.0 FT		IF YES DESCRIBE
10. IS DESIGN STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? NO			
11. AVERAGE DAILY LOW FLOW	40 CFS	DEPTH	3.5 FT
12. STREAMBANK OR CHANNEL PROTECTION REQUIRED	STONE FILL TYPE II	AVERAGE DAILY HIGH FLOW	300 CFS
13. DISTANCE TO EXISTING UPSTREAM STRUCTURE	2.1 MI.	SPAN	90'
14. DISTANCE TO EXISTING DOWNSTREAM STRUCTURE	1/2 MI.	SPAN	112'

ALLOWABLE STRESSES:			
1. DESIGN LIVE LOAD	AASHTO H5 25		
2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL	4 KSF	ON LEDGE	10 KSF
3. ALLOWABLE LOAD FOR PILING	70 TONS	TYPE HP 12x53	ESTIMATED LENGTH 17-20 FT
4. ALLOWABLE STRESS FOR STRUCTURAL STEEL ASTM A 588	TENSION	27,000 PSI	
5. ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60 TENSION	24,000 PSI	COMPRESSION	20,000 PSI
6. ALLOWABLE STRESS FOR CONCRETE CLASS A 1:	3,500 PSI	1:	1,400 PSI
CLASS B 1:	3,500 PSI	1:	1,400 PSI

TRAFFIC MAINTENANCE:	
1. IS TRAFFIC TO BE MAINTAINED? YES	IF YES, ON EXISTING STRUCTURE YES OR ON TEMPORARY BRIDGE NO
2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY TWO WAY	TRAFFIC CONTROL SIGNALS REQUIRED NO
MINIMUM CLEAR SPAN	NA
MINIMUM CLEAR HEIGHT	NA
ARE SIDEWALKS REQUIRED? NA	IF SO, ON WHAT SIDE? NA



LIST OF STANDARDS	
SB-R4A-82	6-18-82R
SCB-DI-75	9-14-81R
SCB-D4-76	1-8-76R
SCB-D6-73	1-3-79R
SCB-D7-71	12-15-76R

LOAD RATING (TONS)						
STRESS LEVELS	TRUCK					
	H	HS	SS2	6 AXLE	SA STR.	SA SEMI
INVENTORY	41	49				
0.55 Fy = 27.5 ksi						
POSTED	60		88		64	66
0.67 Fy = 33.5 ksi						
OPERATING			106	132		
0.75 Fy = 37.5 ksi						

RECOMMENDED FOR APPROVAL	Warren B. Jones	4/1/83	DATE
	STRUCTURES ENGINEER		
RECOMMENDED FOR APPROVAL	Arthur Cross	4/1/83	DATE
	CHIEF OF DESIGN		
APPROVED BY	J. V. Gage	4-11-83	DATE
	DIRECTOR OF ENGINEERING & CONSTRUCTION		

STATE OF VERMONT AGENCY OF TRANSPORTATION	
TOWN OF	FAIRFAX
Highway No.	Vt 128
Bridge No.	8
Log Sta.	9+56
Surv. Sta.	24+21
VT 128 OVER BROWNS RIVER	
~PRELIMINARY INFORMATION~	
Designed by	R. Aldrich
Drawn by	M. Cerutti
Checked by	G. Schellley date 11/83
Bridge Design Supervisor	F.L. Oatley date 1-84
PROJECT	FAIRFAX
PROJECT NO.	BRS 0229(2)S
Bridge Sheet No.	BR800
Sheet	21 of 98